Project Design Phase-I
Proposed Solution Template

Date	22 October 2022
Team ID	PNT2022TMID12375
Project Name	AI-based localization and classification of skin disease with erythema
Maximum Marks	2 Marks

Proposed Solution Template:

S.No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	Nowadays people are suffering from skin diseases and Erythema is one among them. Erythema is redness of the skin caused by injury or another inflammation-causing condition. Often presenting as a rash, erythema can be caused by environmental factors, infection, or overexposure to the sun (sunburn**)**. The regular monitoring of erythema, one of the most important skin lesions and it is essential for successful anti-allergic therapy. To overcome the above problem a model is built which is used for the detection of Erythema Basically, skin disease diagnosis depends on the different characteristics like colour, shape, texture etc. Here the person can capture the images of skin and then the image will be sent the trained model. The model analyses the image and detect whether the person is having skin disease or not.
2.	Idea / Solution description	A model is built to overcome the problem. The model is used for detection of the skin disease. The basic skin disease detection will

		depend on the physical characteristics like colour, texture etc. Here, the disease image is captured and sent to the model to detect the existence of the disease on the skin. The model analyses and gives the analysis.
3.	Novelty / Uniqueness	Digital detection of disease may be even more accurate when diagnosed by looking it than the traditional method
4.	Social Impact / Customer Satisfaction	Easy to access and effective in finding/detecting the disease at the early stage
5.	Business Model (Revenue Model)	Can be used by dermatologists for effective diagnosis. Also, it can be used in homes. Subscription fee can be collected or diagnosis fee can be collected when moved for further treatment after detecting.
6.	Scalability of the Solution	Can be used anywhere and anytime Better accuracy due to AI Low cost and high performance